

Amendment to the Claims

- 1 (Currently amended). A method of stimulating the production of a petroleum well comprising:

pumping a first stimulant into the well, wherein said first stimulant comprises dipentene; ethoxylated linear alcohol; a solvent comprised of naphtha; a product formed from the reaction of alpha olephin with maleic anhydride; and a surfactant, and

pumping a second stimulant into the well, said second stimulant comprising: a product formed from the reaction of alpha olephin with maleic anhydride; a product formed from the reaction of polyether with maleic anhydride; a product formed from the product of alpha olephin and maleic anhydride further reacted with a long chain alcohol selected from the group comprising RCH_2CH_2CHO and $R(CHCH_3)CHO$ and mixtures thereof; a product formed from the reaction of dodecylbenzene sulfonic acid with a pentene; 2 ethyl hexanol; 4-isopropenyl-1-methylcyclohexane; and a surfactant.

2. (Original). A method of stimulating the production of a petroleum well according to claim 1 wherein said dipentene comprises at least about fifteen percent by volume of said first stimulant.
3. (Original). A method of stimulating the production of a petroleum well according to claim 2 wherein said ethoxylated linear alcohol is a non-ionic surfactant
4. (Original). A method of stimulating the production of a petroleum well according to claim 3 wherein said ethoxylated linear alcohol comprises at least about thirty percent by volume of said first stimulant.

5. (Original). A method of stimulating the production of a petroleum well according to claim 4 wherein said ethyl hexanol comprises at least about fifteen percent by volume of said first stimulant.
6. (Original). A method of stimulating the production of a petroleum well according to claim 5 wherein said solvent further comprises isopropyl benzene, and vinyl acetate.
7. (Original). A method of stimulating the production of a petroleum well according to claim 6 wherein said solvent comprises at least about ten percent by volume of said first stimulant.
8. (Original). A method of stimulating the production of a petroleum well according to claim 7 wherein said product of alpha olephin and maleic anhydride comprises at least about ten percent by volume of said first stimulant.
9. (Original). A method of stimulating the production of a petroleum well according to claim 1 wherein said surfactant comprises propylene oxide and ethylene block polymers.
10. (Cancelled).
11. (Original). A method of stimulating the production of a petroleum well according to claim 10 where R is a carbon chain with at least twenty carbons.
12. (Original). A method of stimulating the production of a petroleum well according to claim 10 where said pentene is a dipentene.
13. (Original). A method of stimulating the production of a petroleum well according to claim 10 wherein said second stimulant further comprises a demulsifier.
14. (Original). A method of stimulating the production of a petroleum well according to claim 10 further comprising pumping a solvent solution into the well, said solvent solution

comprising dipentene and diesel.

15. (Original). A method of stimulating the production of a petroleum well according to claim 14 wherein said solvent solution comprises about fifty percent by volume dipentene and about fifty percent by volume diesel.
16. (Original). A method of stimulating the production of a petroleum well according to claim 14 wherein said solvent solution is pumped into the well before said first or said second stimulant is pumped into the well.
17. (Original). A method of stimulating the production of a petroleum well according to claim 16 wherein a spacer is pumped into the well between said first stimulant and said second stimulant.
18. (Original). A method of stimulating the production of a petroleum well according to claim 17 wherein said spacer is diesel.
19. (Original). A method of stimulating the production of a petroleum well according to claim 10 wherein a spacer is pumped into the well between said first stimulant and said second stimulant.
20. (Original). A method of stimulating the production of a petroleum well according to claim 1 further comprising pumping a solvent solution into the well, said solvent solution comprising dipentene and diesel.
21. (Original). A method of stimulating the production of a petroleum well according to claim 20 wherein said solvent solution comprises about fifty percent by volume dipentene and about fifty percent by volume diesel.
22. (Original). A method of stimulating the production of a petroleum well according to claim 21

wherein said solvent solution is pumped into the well before said first stimulant is pumped into the well.

23. (Original). A method of stimulating the production of a petroleum well according to claim 20 wherein a spacer is pumped into the well between said first stimulant and said solvent solution.

24. (Original). A method of stimulating the production of a petroleum well according to claim 23 wherein said spacer is diesel.

25. (Original). A method of stimulating the production of a petroleum well according to claim 1 wherein said well is heated with steam prior to the introduction of said stimulant.

26. (Original). A method of stimulating the production of a petroleum well according to claim 1 wherein said well is heated with hot water prior to the introduction of said stimulant.

27. (Currently Amended). A method of stimulating the production of a petroleum well according to claim 10 wherein the well is in a formation and wherein a displacement fluid selected from the group comprising water and steam is pumped into the well, whereby the first and second stimulant may be forced into the formation.

28. (Original). A method of stimulating the production of a petroleum well according to claim 27 wherein said well is allowed to cool before returning said well to production.

29. (Original). A method of stimulating the production of a petroleum well comprising:
pumping a stimulant into the well, said stimulant comprising:
a product formed from the reaction of alpha olephin with maleic anhydride; a

product formed from the reaction of polyether with maleic anhydride; a product formed from the product of alpha olephin and maleic anhydride further reacted with a long chain alcohol selected from the group comprising $\text{RCH}_2\text{CH}_2\text{CHO}$ and $\text{R}(\text{CHCH}_3)\text{CHO}$ and mixtures thereof; a product formed from the reaction of dodecylbenzene sulfonic acid with a pentene; 2 ethyl hexanol; 4-isopropenyl-1-methylcyclohexane; and a surfactant.

30. (Original). A method of stimulating the production of a petroleum well according to claim 29
where R is a carbon chain with at least twenty carbons.
31. (Original). A method of stimulating the production of a petroleum well according to claim 30
where said pentene is a dipentene.
32. (Original). A method of stimulating the production of a petroleum well according to claim 31
wherein said stimulant further comprises a demulsifier.
33. (Original). A method of stimulating the production of a petroleum well comprising:
pumping a stimulant into the well, said stimulant comprising:
a product formed from the reaction of dodecylbenzene sulfonic acid with a pentene.
34. (Original) A method of stimulating the production of a petroleum well according to claim 33
wherein said stimulant further comprises a product formed from the reaction of
alpha olephin with maleic anhydride.
35. (Original). A method of stimulating the production of a petroleum well according to claim 33
wherein said stimulant further comprises a product formed from the reaction of
polyether with maleic anhydride
36. (Original). A method of stimulating the production of a petroleum well according to claim 33

wherein said stimulant further comprises a product formed from the product of alpha olephin and maleic anhydride further reacted with a long chain alcohol selected from the group comprising $\text{RCH}_2\text{CH}_2\text{CHO}$ and $\text{R}(\text{CHCH}_3)\text{CHO}$ and mixtures thereof.

37. (Original). A method of stimulating the production of a petroleum well according to claim 36
where R is a carbon chain with at least twenty carbons.
38. (Original). A method of stimulating the production of a petroleum well according to claim 33
wherein said stimulant further comprises 2 ethyl hexanol.
39. (Original). A method of stimulating the production of a petroleum well according to claim 33
wherein said stimulant further comprises 4-isopropenyl-1-methylcyclohexane.
40. (Original). A method of stimulating the production of a petroleum well according to claim 33
wherein said stimulant further comprises a surfactant.
41. (Original). A method of stimulating the production of a petroleum well according to claim 33
where said pentene is a dipentene.
42. (Original). A method of stimulating the production of a petroleum well according to claim 33
wherein said stimulant further comprises a demulsifier.